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Q60197
PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Reissue Application of

Jac-moon JO and Je-Chang JEONG

Reissue Application of U.S. Patent
No. 5,793,897 issued on August 11, 1998
Filed: August 11, 2000

U.S. Appl'n. No. 09/638,796

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For: **APAPTIVE VARIABLE-LENGTH CODING AND DECODING METHODS FOR
IMAGE DATA**

SUPPLEMENTAL REISSUE DECLARATION UNDER 37 C.F.R. § 1.175

We, **Jac-moon JO**, of Kyungki-do, Republic of Korea and **Je-Chang JEONG**, of Seoul, Republic of Korea, do hereby declare and state as follows:

Our residence, post office address and citizenship are as stated below next to our names.

We believe that we are the original and first and joint inventors of the invention **APAPTIVE VARIABLE-LENGTH CODING AND DECODING METHODS FOR IMAGE DATA** which is described and claimed in the above-identified U.S. Patent No. 5,793,897, issued August 11, 1998, and assigned to Samsung Electronics Co., Ltd., the specification of which is submitted with this application for reissue; and we affirm that we have reviewed and understand the contents of the specification, including the claims, as amended in this application for reissue.

In compliance with 37 C.F.R. § 1.175(a)(7) and 1.63(b)(3), we hereby acknowledge our duty to disclose information of which we are aware, which is material to patentability as defined in 37 C.F.R. § 1.56.

Priority is claimed under 35 U.S.C. § 119 from December 16, 1993 and December 15, 1994 based on Korean Patent Application Nos. 93-28074 and 94-34497, respectively.

We previously executed a Declaration in support of the above referenced Reissue Application on August 24, 2000, which on information and belief was filed in the U.S. Patent

and Trademark Office on November 8, 2000 (hereinafter the "First Declaration").

Supplemental to our First Declaration, and in compliance with 37 C.F.R. §1.175(a), we hereby declare and state that the above-identified U.S. Patent No. 5,793,897 is believed to be at least partly inoperative for the reason that we had claimed less than we had the right to claim in the patent.

The purpose of seeking a reissue patent is to correct the insufficiency in the patented claims by presenting new claims that are commensurate with the true scope of our invention.

Pursuant to 37 C.F.R. § 1.175(a)(1), we state as follows at least one error in the patent, which is relied on as a basis for this reissue. Claim 4 of the '897 patent recites a step of "setting a plurality of variable-length coding tables having different patterns of a regular region and an escape region according to statistical characteristics of the run, level data." However, we believe that the language "having different patterns of a regular region and an escape region according to statistical characteristics of said run, level data" excessively limits the type of variable-length coding tables that can be set to perform the objects of the invention. As such, we believe that new claims should be added that do not limit the types of variable-length decoding tables that can be employed by this adaptive variable-length decoding method.

At the time of filing on August 11, 2000, a new independent claim 12 was added in this reissue application that did not include a recitation requiring the variable-length decoding tables to be set "having different patterns of a regular region and an escape region according to statistical characteristics of said run, level data." Accordingly, new independent claim 12 corrected an error in claiming less than we had a right to claim.

Claim 12, as originally submitted, was directed to an adaptive variable-length decoding method in which a combination of intra/inter mode information, quantization step size information and scanning position information are received and in which one of a plurality of variable length decoding tables is selected according to the intra/inter mode, quantization step size and scanning position information. Received data is then variable length decoded according to the variable length decoding table that was selected. In this regard, claim 12, as originally submitted, stated as a step in the claimed "adaptive variable length decoding method" a step of "receiving quantization step size," and a step of "detecting position information."

During an interview with the Examiner on January 10, 2002, one significant feature of the claimed invention, which is recited in the original claim 12 and distinguishes it from the prior

art, is the use of position information, which necessarily relates to scanning as disclosed in the application, in the decoding table selection process. The unique origin and content of the "scanning position information" that is received provides an advantage not seen in the prior art, particularly the patent to Puri et al (USP 5,227,878) which was cited by the Examiner in a rejection of claim 12. In fact, the prior art does not generate scanning position information as part of its encoding process nor does it receive and utilize scanning position information as part of its table selection process for decoding received data. This same deficiency would apply to the decoding process.

As a result of an interview conducted with the Examiner on January 10, 2002, we became aware that claim 12 itself had errors in not clearly reciting the steps of the adaptive variable length decoding method that we considered our invention. Specifically, the claim did not specify that the original "detecting" step was for "scanning position information." Further, we became aware that the "receiving" step did not specify that it was quantization step size "information" that was received. Accordingly, we amended claim 12 in order to correct these errors.

Pursuant to 37 C.F.R. § 1.175(a)(2), we state that all errors being corrected in the reissue application up to the time of filing this declaration arose without any deceptive intention.

We hereby appoint all attorneys of SUGHRUE MION, PLLC who are listed under the USPTO Customer Number shown below as my attorneys to prosecute this application and to transact all business in the United States Patent and Trademark Office connected therewith, recognizing that the specific attorneys listed under that Customer Number may be changed from time to time at the sole discretion of Sughrue Mion, PLLC, and request that all correspondence about the application be addressed to the address filed under the same USPTO Customer Number.

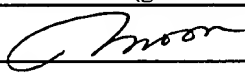
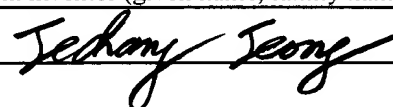
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We hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine and imprisonment, or both, under 18 U.S.C. 1001, and that such willful false statements may jeopardize the validity of the application, any patent issued thereon, or any patent to which this declaration is directed.

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| Full name of sole or first inventor (given name, family name): Jae-Moon JO | |
| Inventor's signature  | Date |
| Residence | Citizenship Korean |
| Mailing Address | |
| Full name of second joint inventor (given name, family name): Je-Chang JEONG | |
| Inventor's signature  | Date Mar. 17, 2003 |
| Residence | Citizenship Korean |
| Mailing Address | |
| <input type="checkbox"/> Additional joint inventors are named on separately numbered sheets attached hereto. | |

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PATENT APPLICATION

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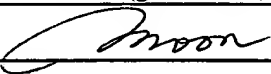
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|--|---------------------|
| Full name of sole or first inventor (given name, family name): Jae-Moon JO | |
| Inventor's signature  | Date March 22, 2003 |
| Residence | Citizenship Korean |
| Mailing Address | |
| Full name of second joint inventor (given name, family name): Je-Chang JEONG | |
| Inventor's signature | Date |
| Residence | Citizenship Korean |
| Mailing Address | |
| <input type="checkbox"/> Additional joint inventors are named on separately numbered sheets attached hereto. | |



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PTO/SB/55 (02-01)

Approved for use through 01/31/2004. OMB 0651-0033

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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| REISSUE PATENT APPLICATION STATEMENT AS TO LOSS OF ORIGINAL PATENT | | Docket Number (Optional) |
| I hereby state that: I am the applicant for a reissue patent based on the original patent identified below. | | |
| Name of Inventor(s)/Assignee(s) | | |
| Patent Number | | |
| Title of Invention | | |
| Reissue application number (if known) | | |
| The ribboned original patent grant is lost or inaccessible. | | |
| Signature <i>D. H. Shim</i> | | |
| Typed or printed name <i>Dong Hyun Shim</i> | | Date <i>March 18, 2003</i> |
| Title (e.g. inventor(s), officer of assignee) <i>Senior Manager</i> | | |
| <div style="text-align: right;">RECEIVED APR 22 2003 Technology Center 2600</div> | | |

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